

10. (NEW) A monoclonal antibody of claim 4, which specifically binds with a peptide having the amino acid sequence of SEQ ID NO: 11.

11. (NEW) A method for detecting 19P2 ligand in a sample, comprising assaying said sample with a monoclonal antibody of claim 10 and detecting such binding.

12. (NEW) A monoclonal antibody of claim 1, which specifically binds with a peptide having the amino acid sequence of SEQ ID NO: 7.

~~13~~ 14. (NEW) A method for detecting 19P2 ligand in a sample, comprising assaying said sample with a monoclonal antibody of claim 12 and detecting such binding.

~~14~~ 15. (NEW) A method for detecting 19P2 ligand in a sample, comprising assaying said sample with a monoclonal antibody of claim 10 and an antibody which specifically binds to a peptide having the amino acid sequence of SEQ ID NO: 7, detecting such binding.

~~15~~ 16. (NEW) A method for diagnosing hyperprolactinemia comprising an assay using the method of claim 11.

~~16~~ 17. (NEW) A method for diagnosing hyperprolactinemia comprising an assay using the method of claim 12.

~~17~~ 18. (NEW) A method for diagnosing hyperprolactinemia comprising an assay using the method of claim 13.

~~18~~ 19. (NEW) A monoclonal antibody of claim 4, which specifically binds with a peptide having the amino acid sequence of SEQ ID NO: 1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:5, or SEQ ID NO:12.

~~19~~ 20. (NEW) A monoclonal antibody of claim 4, which specifically binds with a peptide having the amino acid sequence of amino acid residues 12 to 24 of SEQ ID NO: 1, amino acid residues 12 to 24 of SEQ ID NO: 2, or amino acid residues 12 to 24 of SEQ ID NO: 3.

~~20~~ 21. (NEW) A monoclonal antibody of claim 4, which specifically binds with a 19P2 ligand peptide, but which does not bind with a peptide having the amino acid sequence of SEQ ID NO: 4 or SEQ ID NO: 6.

~~21~~ 22. (NEW) A monoclonal antibody of claim 4, which is P2L-1Ta.

~~22~~ 23. (NEW) A monoclonal antibody of claim 4, which is P2L-3Ta.

~~23~~ 24. (NEW) A monoclonal antibody of claim 4, which is P2L-1Ca.

24 25. (NEW) A monoclonal antibody of claim 4, which is P2L-2Ca.

25 26. (NEW) An isolated hybridoma cell line, said cell line producing the antibody P2L-1Ta, P2L-3Ta, P2L-1Ca or P2L-2Ca.

26 29. (NEW) A method of claim 15 for detecting 19P2 ligand in a sample, comprising assaying said sample wherein said 19P2 ligand is attached to a carrier.

27 30. (NEW) A method of claim 15 wherein a monoclonal antibody is attached to a carrier.

28 31. (NEW) A method of claim 15 wherein a monoclonal antibody is attached to a detectable signal or label.

29 32. (NEW) A method of claim 15 which is a sandwich assay.

30 33. (NEW) A method of claim 15 which is a competitive inhibition assay.

31 34. (NEW) A method of claim 15 in which one monoclonal antibody is P2L-1Ta, P2L-3Ta, P2L-1Ca or P2L-2Ca.

13, 27, 28 = missing